AS 4451.3—1997
ISO 9775:1990

Australian Standard®

Small craft—Steering systems

Part 3: Remote systems for single outboard motors of 15 kW to 40 kW power

[ISO title: Small craft—Remote steering systems for single outboard motors of 15 kW to 40 kW power]

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The following interests are represented on Committee CS/1:

Aluminium Development Council

Australasian Corrosion Association

Australian Boating Industry Association

Australian Customs Service

Australian Maritime Safety Authority

Australian Yachting Federation

Boat Owners Association of N.S.W.

Department of Defence

Institute of Marine Engineers

Police Department, N.S.W.

Queensland Department of Transport

University of New South Wales

Waterways Authority

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PREFACE

This Standard was prepared by the Standards Australia Committee CS/1, Small Pleasure Boats, to supersede (in part) AS 1799.3—1985, *Small Pleasure Boats Code*, Part 3: *Engineering.*

The objective of this Standard is to provide the minimum requirements for remote steering systems in small craft with single outboard motors of 15 kW to 40 kW power.

This Standard is identical with and has been reproduced from ISO 9775:1990, *Small craft—Remote steering systems for single outboard motors of 15 kW to 40 kW power*.

As this Standard is reproduced from an International Standard, the following applies:

(a) Its number appears on the cover and title page while the International Standard number appears only on the cover.

(b) In the source text 'this International Standard' should read 'this Australian Standard'.

(c) A full point substitutes for a comma when referring to a decimal marker.

CONTENTS

NOTES

AUSTRALIAN STANDARD

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1 Scope

This International Standard specifies requirements and test methods for remote push-pull cable steering systems and their major component items, used for small craft with a single outboard motor of 15 kW to 40 kW power.

2 Definitions

For the purposes of this International Standard, the following definitions apply.

2.1 steering system: Assembly including all components necessary to transmit remote manual effort to the outboard motor.

2.2 boat-mounted steering system: System in which an output ram guide tube is secured to the boat.

2.3 motor-mounted steering system: System in which an output ram guide tube is secured to the engine.

2.4 drag link: Device in a motor-mounted steering system by which the linear force of the output ram is transmitted to the motor steering arm.

2.5 helm: Mechanism, exclusive of a steering-wheel or other means for manual application of controlling force, by which controlling force is fed into a steering system cable or other force-transmission means.

2.6 minimum retained system performance: System capability after test(s) such that at least 90 % of the steering arc normally available each side of the mid-position may be obtained by exertion of no more than 27 N·m of torque at the helm, through the wheel or other normal control.

This criterion does not define steering system performance while a boat is underway but is intended to provide quantitative limits for design and test purposes.

3 General requirements

3.1 When steering systems are factory-installed in the boat, the complete system shall be supplied. In outboard motor-boats, the system shall be supplied complete to the interface point at the ram output end as shown in figure 1.